

GOLUBEV, D.B.; ZUBZHITSKIY, Yu.N.; ZVEREVA, Ye.P.; SIMANOVSKAYA, V.K.;  
LIPINA, N.V.; YABROV, A.A.

Change in cellular permeability in the process of symplasm  
formation induced by some viruses in the tissue. Vop. virus.  
10 no.5:544-550 8-0 '65. (MIRA 18:11)

1. Nauchno-issledovatel'skiy institut vaktsin i syvorotok  
i Institut eksperimental'noy meditsiny AMN SSSR, Leningrad.

ZUCA, STEFANIA

The electrical conductivity of binary mixtures of molten salts. Systems:  $\text{KNO}_3 + \text{NaNO}_3$ ,  $\text{Ba}(\text{NO}_3)_2 + \text{ENa}$ ,  $\text{MnCl}_2 + \text{KCl}$ . I. G. Murgulescu and Stefanica Zucca (Chem. Research Centre, Acad. R.P.R., Bucharest, Romania). *Acad. rep. populare Române, Studii cercetări chim.* 7, 325-38 (1958).—Cond. was measured by an app. with a Kohlrausch bridge, precise to within 1%. For the system  $\text{MnCl}_2 + \text{KCl}$  the cells were modified to allow bubbling of HCl gas through the molten mixt. in order to avoid the formation of the Mn oxychloride and oxide. Mol. cond. of all 3 mixts. shows a neg. deviation from the rule of additivity. For the 1st and 2nd mixts. the deviations are small, and are due to ionic interaction. For  $\text{MnCl}_2 + \text{KCl}$  the deviations are large, because of chem. reaction as well as ionic interaction. The relations established or used in this work are based on the concept of complete dissociation of the molten salts to ions. T. Dusmanu

MURGULESCU, I. G.; ZUCA, St.

Viscosity of individual salts in the melted stage. Pt. 13. Rev  
chimie Roum 10 no.2:123-128 F '65.

Viscosity of the binary mixtures of melted salts. Ibid.:129-139

1. Physical Chemistry Research Center, 23 Dumbraava Robie St.,  
Bucharest. Submitted August 27, 1964.

MURGULESCU, I.G., acad.; ZUCA, St.

Electric conductivity of the binary-salt mixtures in molten state;  
the systems  $\text{KNO}_3 + \text{NaNO}_3$ ;  $\text{Ba}(\text{NO}_3)_2 + \text{KNO}_3$ ;  $\text{MnCl}_2 + \text{KCl}$ . Rev chimie 4  
no.2:227-241 '59. (ERAI 9:7)

1. Comite de redaction, Revue de Chimie; mitglied der Akademie  
der Rumanischen Volksrepublik (for Murgulescu)  
(Salts) (Mixtures) (Potassium nitrate)  
(Sodium nitrate) (Barium nitrate)  
(Manganese chlorides) (Potassium chloride)  
(Electric conductivity)

RELEAEV, A.I. [Belyayev, A.I.]; ZUCA, Stefania

A Rumanian-Soviet scientific conference on the theme "Physical Chemistry of Melted Electrolytes." Analole chimie 17 no.4: 177-181 O-D '62.

1. Membru corespondent al Academiei de Stiinte a U.R.S.S. (for Belyayev).

MURGULESCU, I. G., acad.; ZUCA, Stefanie

Inner friction of cryolites. Rev chimie 6 no. 1:21-27 '61.

1. Membre du Comite de redaction "Revue de chimie" (for Murgulescu)

MURGULESCU, I. G., acad.; ZUCA, Stefania

On the viscosity of cryolite. Studii cerc chim 9 no.1:55-61 '61.  
(MEAI 10:9)

1. Centrul de cercetari chimice al Academiei R.P.R., Sectia de chimie-fizica. 2. Comitetul de redactie, STUDII SI CERCETARI DE CHIMIE(for Murgulescu).

(Cryolite) (Viscosity)

ZUCHA, J.; ZATKO, J.

Some experiences in the technology of electroerosive machining. p. 53?.  
(TECHNICKA PRACA, Vol. 9, No. 8, Aug 1957, Bratislava, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncr.

ZUCHA, J.

Production and repairs of forging dies on a VJK 2 machine by electroerosion. p. 487.

STROJIRENSKA VYROBA. (Ministerstvo tezkeho strojirenstvi, Ministerstvo presneho strojirenstvi a Ministerstvo automobiloveho prumyslu a zemedelskych stroju) Praha, Czechoslovakia, Vol. 7, no. 11, Nov. 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 9, no. 1, Jan, 1960

Uncl.

ZUCHA, Jozef (Bratislava, ul. Marod. povstania 6)

Treatment of total stricture of the esophagus due to burns  
Lek. obzor 3 no.1-2:29-32 1954.

1. Z Chirurgickej kliniky detskeho veku SU v Bratislave.  
(ESOPHAGUS, stenosis,  
\*caustic, surg.)

ZUCHA, Jozef (Bratislava, ul. Narod. povstania 6)

Congenital atresia of the esophagus. Lek. obzor 3 no.1-2:32-37  
1954.

1. Z chirurgickej kliniky detskeho veku SU v Bratislave.  
(ESOPHAGUS, abnormalities,  
\*atresia)  
(ABNORMALITIES,  
\*esophagus, atresia)

ZUCHA, J.

Little's disease and surgery. Neur. Psychiat. cesk. 17 no. 5:265-  
270 Oct 54.

1. Neurochir. odd. klin. ped. chir. SU v Bratislave; predn. Dr.  
J.Zucha.  
(CEREBRAL PALSY, surgery  
revascularization by carotidojugular anastomosis)

ZUCHA, J., Doc.; KAMENSKY, P. Dr.; PEKAROVIC, M. Dr.

Severe enterocolitis with perforation in newborn & in delicate infants. Rozhl. chir. 36 no.3:177-180 Mar 57.

I. II. Detska klinika (doc. M. Michalickova) a klinika pediatrickej chirurgie (doc. Dr. J. Zucha) LFUK v Bratislav. (COLITIS, in inf. & child newborn, with perf. (Cz)) (INFANT, NEWBORN, dis. colitis with perf. (Cz))

ZUCHA, J.

~~Malformation of the diaphragm. Cesk. pediat. 14 no.2:119-122 5 Feb 59.~~

1. Klinika pre detsku a mozgovu chirurgiu Lek. Makulty MU v Bratislave,  
prednosta doc. dr. Jozef Zucha.  
(DIAPHRAGM, abnorm,  
statist. (Cx))

ZUCHA, J.; CIGANEK, L.

Possibility of surgical therapy of focal epilepsy in children. Cesk. pediat. 14 no.3:220-229 5 Mar 59.

1. Klinika pre detsku a mozgovu chirurgiu Lek. fak. UK v Bratislave, prednosta doc. MUDr. J. Zucha Ustav experimentalnej mediciny SAV v Bratislava, riaditeľ člen koresp. SAV JB Antal, veduci oddelenia klinickej elektrofiziologie člen koresp. SAV JB Černásek.  
(EPILEPSY, in inf. & child,  
focal, surg. (Cx))

ZUCHA, J.

Pathological communication of the intracranial cavity following injury.  
Rozhl. chir. 38 no.4:237-242 Apr 59.

1. Klinika pre detsku a mozgovu UK v Bratislave, prednosta doc. MUDr.  
J. Zucha.

(BRAIN, wds. & inj.

causing arteriovenous fistulae, defects of dura mater  
& bone assoc. with possible escape of CSF (Cz))

ZUCHA, Jozef

What should we expect from vegetative screening in neurosurgery.  
Roshl. chir. 38 no.11:745-749 Nov 59.

1. Klinika pre detsku a mozgovu chirurgiu UK v Bratislave, prednosta  
doc. dr. J. Zucha.  
(NEUROSURGERY)

ZUCHA, J.

On the problem of the surgical treatment of inflammatory hydrocephalus. Cesk.neur.23 no.6:403 -405 0'60.

1. Klinika detskej a neorgovej chirurgie UK, Bratislava, prednosta  
doc.dr. Josef Zucha.  
(HYDROCEPHALUS uarg)

ZUCHA, J.

Peritonitis in children, Cesk. pediat. 16.no.12:1057-1063 D '61.

1. Klinika detskej chirurgie LFUK v Bratislave, prednosta doc. MUDr.  
J. Zucha.

(PERITONITIS in inf & child)

ZUCHA J.; CERNACEK, J.

An attempt to restore conductivity in the spinal cord after traumatic section. Cesk. neur. 24 no.5:324-328 S '61.

1. Klinika detskej a mozgovej chirurgie LFUK, prednosta doc. dr. J. Zucha, Neurologicka klinika LFUK v Bratislave, prednosta olen koresp. SAV prof. dr. J. Cernacek.

(SPINAL CORD wds & inj)

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**CIA-RDP86-00513R002065610013-7"**

ZUCHA, J.

On the problem of congenital malformations of the esophagus.  
Cesk. otolaryng. 11 no.6:340-342 D '62.  
(ESOPHAGUS)

ZUCHA, J.

Infratentorial extracerebellar expansive processes. Cesk. neurol. 25  
no.5:300-304 S '62.

1. Klinika detskej a mozgovej chirurgie Lekarskej fakulty UK v  
Bratislave, prednosta doc. dr. J. Zucha.  
(BRAIN NEOPLASMS) (BRAIN DISEASES)

ZUCHA, J.; GRUNERT, V.; HUPKA, M.; WINKLER, A.; CERNY, V.; CIGANEK, L.

Isolated perfusion of the brain with cytostatic drugs in the treatment  
of malignant cerebral neoplasms. Česk. neurol. 25 no.5:342-347 S '62.

1. Klinika detskej a mozgovej chirurgie Lekarskej fakulty UK v Bratislave,  
prednosta doc. dr. J. Zucha. Laboratorium experimentalnej chirurgie  
Ustavu experimentalnej mediciny SAV v Bratislave, prednosta akademik  
K. Siska. Vyskumny ustav onkologicky v Bratislave, riaditeľ doc. dr.  
V. Thurzo.

(BRAIN NEOPLASMS) (ANTINEOPLASTIC AGENTS)  
(PERFUSION)

ZUCHA, J.

On pediatric surgery. Rozhl. chir. 41 no.3:157-158 Nr. 162.  
(SURGERY OPERATIVE in inf & child)  
(PEDIATRICS surg)

ZUCHA, J.

Traumatic cranial fistulae with liquorrhoea and cranial vascular fistulae Therapeutic results in 55 cases. Bratisl. lek. listy 42 no. 9: 548-555 '62.

1. Z Kliniky detskej a mozgovej chirurgie Lek. fak. Univ. Komenskeho v Bratislave, prednosta doc. MUDr J. Zucha.

(SKULL wds & inj) (FISTULA) (BRAIN blood supply)  
(CEREBROSPINAL FLUID)

**CZECHOSLOVAKIA**

L. CIGANEK, J. ZUCHA and V. GRUNERT, Institute of Experimental Medicine of the Slovak Academy of Sciences (Ustav experimentálnej medicíny SAV), Chief (rieditel) member-correspondent J. ANTAL; Department of Clinical Electrophysiology (Oddelenie klinickej elektrofiziologie) Head (veduci) member-correspondent J. CERNACEK, and Clinic for Pediatric and Cerebral Surgery of the Medical Faculty of Comenius University (Klinika pre detsku a mozgovo chirurgiu Lekarskej fakulty UK [University Komenskeho]) Head (prednosta) Docent Dr J. ZUCHA, Bratislava.

"Experiences with Surgical Treatment of Epilepsy."

Prague, Casopis Lekaru Ceskych, Vol 102, No 6, 8 Feb 63; pp 146-151.

**Abstract** [English summary modified]: Data on 20 refractory epileptics treated by excision of the well-localized epileptogenic focal areas: 10 were cured or nearly cured, 5 improved, 5 unchanged. Discussion. Much further research is needed in preoperative selection of the most suitable patients for cerebral surgery in this disease. Table, diagram, 4 Czech and 9 Western references.

1/1

ZUCHA,J.

Our problem in prevention from the neurosurgical viewpoint.  
Rozhl. chir. 44 no.2:83-87 F '65.

1. Neurochirurgicke oddelenie Krajskeho ustavu narodniho  
zdravi (veduci: doc. dr. J. Zucha [deceased]).

ZUCHA,J.; GRUNERT,V.; HUEKA,M.

Treatment of malignant brain tumors by perfusion of cytostatics.  
Bratisl. lek. listy 44 no.1:46-51 '64.

1. Neurochirurgicke oddelenie KUNZ v Bratislave (veduci doc.  
MUDr.J.Zucha) a Laboratorium experimentalnej chirurgie UEM  
SAV v Bratislave (veduciakademik K. Siska).

ZUCHA, J.

Therapeutic results after isolation perfusion of the brain  
with cytostatics in 10 patients with malignant brain tumors.  
Cesk. neurol. 26 no.5:289-902 S '63.

1. Neurochirurgicke oddelenie KUNZ v Bratislave, veduci doc.  
dr. J. Zucha.

(ISOLATION PERfusion) (BRAIN NEOPLASMS)  
(MENINGIOMA) (GLIOMA) (CYCLOPHOSPHAMIDE)

CIGANEK, L.; ZUCHA, J.; GRUNERT, V.

Experiences in the surgical treatment of epilepsy. Cas. lek. česk. 102 no. 6:146-151 8 F '63.

1. Ustav experimentalnej mediciny SAV v Bratislave, riaditeľ člen koresp. SAV J. Antal Oddelenie klinickej elektrofyziológie, vedúci člen koresp. SAV J. Černáček Klinika pre detsku a možgovu chirurgiu Lekarskej fakulty JK v Bratislave, prednosta doc. dr. J. Zucha.  
(EPILEPSY) (NEUROSURGERY)

ZUCHA, J.

Vertebralgia and spinal tumors. Bratisl. lek. listy 43 no.2:109-115  
'63.

1. Z Kliniky detskej a mozgovej chirurgie Lek. Pák. University Komenskho  
v Bratislave, prednosta doc. MUDr. J. Zucha.  
(SPINAL NEOPLASMS) (BONE NEOPLASMS) (SPINAL CORD NEOPLASMS)  
(MENINGIOMA) (NEURILEMMOMA) (NEOPLASM METASTASIS)  
(PAIN)

CZECHOSLOVAKIA

ZUCHA, J., MD, Docent, director of the Neurosurgery Department (Neurochirurgické oddelenie), KUNZ [Krajsky ustav narodneho zdravia; Kraj Institute of Public Health], Bratislava.

"Ten Cases of Malignant Brain Tumor Treated by Isolated Brain Perfusion With Cytostatics."

Prague, Ceskoslovenska Neurologie, Vol XXVI(LIX), No 5, September 63, pp 289-292.

Abstract [Author's English summary]: Cytostatics (Endoxan) were applied, in addition to the usual surgical and radiation treatment, to ten patients, one with malignant meningoma and nine with multiform glioblastoma. Patients were selected at different stages of the disease, but mainly during relapses. When perfusion was applied to soporose patients in a hopeless state, it was ineffective. Regional perfusion of the brain by cytostatics proved effective, however, both in relapses of glioblastoma and as first postoperative treatment. Cytostatics by perfusion should be applied in a series of treatments, as a single application gives only temporary results. One Czech reference.

ZUCHA, J.

(-1)  
CZECHOSLOVAKIA

ZUCHA, J; MD; KRAVCOVA, V.

Clinic of Child Surgery LFUK (Klinika detskej chirurgie LFUK), Bratislava

Bratislava, Lekarsky obzor, No 4, 1963, pp 243-249

"Experiences Gained in the Therapeutic Activity of the Clinic of Pediatric Surgery in Bratislava."

MURGUDESCU, I.G.; ZUCA, St.

Viscosity of individual salts in the melted stage. Pt. 3.  
Studii cerc. chim. 14 nr. 2(104)-113 F 165.

Viscosity of the binary mixtures of melted salts. ibid., 115-125

I. Physical Chemistry Research Center, R. S. R. Academy, 20  
Dunbrava Rosie St., Bucharest. Submitted August 27, 1964.

ZUCHNIEWICZ, W.

The Poznan National Spring Fair '63; exhibited goods  
are goods for sale. Przegl techn 84 no.13:3,4 31 Mr '63.

ZUCHNDORF, W.

The Jubilee Leipzig Fair has been closed. Friday tenth 26 no. 1216  
21 Mr '65.

ZUCHNIEWICZ, Waclaw

Effects of the Polish "Spring 65" fair. Przegl techn B6 no.14:3  
4 Ap '65.

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R002065610013-7

ZUCHNIEWICZ, Waclaw

Contacts with Moscow. Przegl techn 84 no.20 of 19 May '63.

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"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R002065610013-7

ZUCHNIEWICZ, Waclaw

Successful finale of the 1963 Poznan National Spring Fair. Przegl  
techn 84 no.14:7 7 Ap '63.

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R002065610013-7"

ZUCHNIEWICZ, Waclaw, mgr

The Krakow region chosen as territory for the development of  
the metallurgical, chemical, and electric power producing  
industries. Przegl techn [84] no.9:7 3 Mr '63.

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R002065610013-7

ZUCHNIEWICZ, Waclaw

The Domestic Fair "Spring 1962." Przegl techn no.13:4 Ap '62.

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CIA-RDP86-00513R002065610013-7"

ZUCHNIEWICZ, W.

Meeting with members of the Polish Sejm from the Krakow region.  
Przegl tech [84] no.8:1 24 F '63.

ZUCHNIEWICZ, Waclaw

Pattern designing and technological progress, a strong mark of  
the national fairs. Przegl techn no.40:9 '60 '62.

ZUCHNIEWICZ, Wacław

Crucial problems of industry as seen by the members of Parliament  
during their discussions in the Sejm. Przegl techn. 85 no.3:1, 3  
19 Ja '64.

ZUCHNIEWICZ, W.

The city of Wleclawek derives much benefit from its engineers; interview with Wladyslaw Michalski, Chairman of the Presidium of the People's City Council. Przegl techn 84 no.50:4 15 D '63.

ZUCHNIEWICZ, Waclaw

Universal utilization of technological progress in municipal management; interview with Stanislaw Sroka, Minister of Municipal Management. Przegl techn 85 no.33:3 16 Ag'64.

ZUCHNIEWICZ, Waclaw

After the Poznan Spring Fair; turnovers were dictated by commercial transactions. Przegl techn no.14:10 8 Ap '62.

"APPROVED FOR RELEASE: 09/01/2001

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ZUCHNIEWICZ, Wadlaw

A well-organized fair with good results. Przegl techn no.39-8  
30 S '62.

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ZUCHIEWICZ, W.

POWOGAZ, the Poznan Water and Gas Meter Works; its meters have passed  
the quality test. Przegl techn 84 no.4:10 27 Ja '63.

ZUCHNIEWICZ, Wacław

Care for the metallurgic industry; opinions of members of Parliament  
expressed during debates in the Polish Sejm. Przegl techn 85 no.4:5,  
9 26 Ja '64.

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R002065610013-7

STANNY, Damuta; ZUCHNIEWICZ, Waclaw

Impressions from Moscow. Przegl techn 84 no.23/24/79 9-16 Je '63.

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ZUCHOWICZ, Maria

Contribution to the problem of petit mal attacks in children.  
Pediat. Pol. 40 no.7:737-738 Jl '65.

1. Z Oddzialu Neurologii Dzieciecej im. J. Korczaka Kliniki  
Neurologicznej w Gdansku (Kierownik: prof. dr. Z. Majewska).

ZUCHOVICKIJ, M.S.; LEVASOVA, N.A.; RAJCHMAN, A.B.

Principles of evaluation and work assignment in surgical diseases.  
VI. Osteoarticular tuberculosis. Lek. obozr 3 no.5:300-302 1954.

(TUBERCULOSIS, OSTEOARTICULAR

med. evaluation of working capacity)

(WORK

capacity, med. evaluation in osteoarticular tuberc.)

(WOMEN'S COMPENSATION AND INSURANCE

med. evaluation of working capacity in osteoarticular  
tuberc.)

SADOWSKI, Jerzy, mgr. inz.; SZUDROWICZ, Barbara, mgr. inz.; STROJNY, Tadeusz,  
mgr. inz. arch.; ZUCHOWICZ, Iwona, mgr. inz.

Sound proofing in the construction of dwelling houses. Konstrukcje  
Budow inzyn no.19:1-100 '62.

1. Instytut Techniki Budowlanej, Warszawa.

ZUCHOWICS, K.

(D)

2489

629.135.066:621.34

Zuchowics K. Considerations Concerning the Choice of the  
Type of Electrical Installations for Aeroplanes.Rozwazania nad wyborem typu instalacji elektrycznej  
dla samolotow. Technika Lotnicza. No. 4, 1952, pp. 96--104,  
8 figs., 2 tabs.

Polish Technical  
Abstract  
No. 4, 1953  
Transport

An attempt is made to compare, from the point of view of  
the aircraft designer, several types of essential installations  
for aeroplanes with a view to obtaining the best systems,  
especially as regards weight. Requirements in aeroplane  
electrical installations are dealt with, together with  
essential parts--generators, mains and receivers.

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ZUCHOWICZ, Kwidzyn, mfr: inz.

Brushes for electric machines in aviation. Inst 10th prace  
no.23155-62 '64.

1. Submitted May 1964.

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ZUCHOWICZ, Kwidzyn, mgr inż.

Aircraft lighting. Techn lotn 19 no.4:94-98 Ap '65.

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ZUCHOWICZ, K.

Alternating-current generators used on aircraft. p.2

TECHNIKA LOTNICZA. (Zwiazek Polskich Inzynierow i Technikow Lotniczych)  
Warszawa, Poland. Vol.14, no.1, Jan./Feb. 1959

Monthly List of East European Accessions Index, (EEAI)LC, Vol.8, no.6  
June 1959  
Unci.

ZUCHOWICZ, K

"Electric static discharges and airborne radio reception effects and countermeasures."  
p. 38 (Tschnika Lotnicza, Vol. 9, No. 2, Mar./Apr., 1954, Warsaw)

SO: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 6, June  
1954, Uncl.

POLAND/General Problems of Pathology - Tumors. Comparative  
Oncology. Human Neoplasms.

U.

Abs Jour : Ref Zhur - Biol., No 19, 1958, 89713  
Author : Zuchowicz, T.  
Inst :  
Title : Angioma of the Small Intestine as a Cause of Intestinal  
Hemorrhage.  
Orig Pub : Polski tygod. lekar., 1956, 11, No 44, 1831-1833  
Abstract : No abstract.

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ZUCHOWICZ, Tadeusz

Angioma of the small intestine as a cause of hemorrhage.  
Polski tygod. lek. 11 no.44:1881-1883 29 Oct 56.

1. (Z I Kliniki Chirurgicznej A.M. w Lodzi; kierownik:  
prof. dr. med. M. Stefanowski) adres: Lodz Al. 1 maja 1 m 4,  
(INTESTINE, SMALL, neoplasms,  
angioma causing hemorrh. (Pol))  
(ANGIOMA, case reports,  
small intestine, causing hemorrh. (Pol))

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ZUCHOWSKA, E.

*Haematomyzus elephantis Piaget on Indian elephants (Elephas maximus L.) in the zoo in Lodz. Wszechswiat no. 5:115 My'64.*

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2. "The Application of a Multistage Parallel System and Series Configuration"; pp. 371-382 (English summary).
3. "Analysis of Army's Requirements for a Computer Control System"; Moscow ECONOMIC; pp. 309-327 (English summary).
4. "Some Applications of Decoding Systems of Complements for Type of the Directional Element"; J. ELECTR. ENG.; pp. 35-40 (English summary).
5. "Optimal Signal Parameters in Telecommunications"; SEMANTICS IN SPANISH—(English summary).
6. "On a General Method of Analysis of Relay-Contact Networks"; Radio REVIEW; pp. 413-418 (English summary).
7. "Some Characteristics of a Pulse Generated DC Network"; Radio ENGINEERING and ELECTRONIC PHYSICS; pp. 422-423 (English summary).
8. "An Analysis of Follow-up System Operating with DC Currents for Control by Pulse Rectifier Modulation"; Radio ENGINEERING and ELECTRONICS; pp. 85-92 (English summary).
9. "The Properties of the Magnetic Divergence-Parallel Circuit with Inductive Load"; Soviet PHYSICS; pp. 96-97 (English summary).
10. "Some Characteristics of Two Harmonic Magnetic Oscillations"; Radio ENGINEERING and ELECTRONIC PHYSICS; pp. 871-872 (English summary).
11. "A Study of Current Properties of Counter-Current Sheath; Behavior with One Stable Variable Mode"; Radiotekhnika; pp. 493-510 (English summary).
12. "Self-Compensating Ability of Radiated Steam Generator at the Natural Water Circulation"; Atomenerg.; pp. 511-512 (English summary).
13. "Temperature Distribution of the Parallel Pipe Heat Exchanger"; Moscow ECONOMIC; pp. 522-526 (English summary).

ACCESSION NR: AP4026370

P/0034/64/000/003/0101/0102

AUTHOR: Zuchowski, Adam (Zhukhovski, A.) (Docent, Doctor of engineering)

TITLE: Dynamic optimization of apparatus for measuring aperiodic signals

SOURCE: Pomiary, automatyka, kontrola, no. 3, 1964, 101-102

TOPIC TAGS: aperiodic signal, non-repetitive signal, aperiodic signal measurement, automatic control, linear electrical system, electric measuring instrument, oscillograph, loop oscilloscope, unit step

ABSTRACT: The direct measure of the inaccuracy of measurement apparatus is the value of the difference  $X(t) - Y(t)$ , where  $X(t)$  is the measured signal and  $Y(t)$  is the response of the apparatus in the form of a graph on a tape, circular record chart, etc. Owing to computational difficulties, especially with a complex shape of the signal  $X(t)$ , it is more convenient to operate with the "derived" quantity in relation to the difference  $X(t) - Y(t)$ , often called the "error signal." Inasmuch as the tested signals  $X(t)$  have, as a general rule, limited power and the measurement apparatus is structurally stable, the error signal has limited power, which, as the derived quantity of the difference  $X(t) - Y(t)$ , can become the criterion for measurement accuracy. The assumption is made that the measuring

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apparatus is characterized by the transient function  $K(j\omega)$ , joining the spectra of  $X(t)$  and  $Y(t)$  signals

$$Y(j\omega) = X(j\omega) \cdot K(j\omega)$$

The strength of the error signal can be computed as

$$P = \frac{1}{2\pi} \int_{-\infty}^{\infty} |X(j\omega) - Y(j\omega)|^2 d\omega \quad (1)$$

from where

$$P = \frac{1}{2\pi} \int_{-\infty}^{\infty} |X(j\omega)|^2 \cdot |1 - K(j\omega)|^2 d\omega \quad (2)$$

$$P = \frac{1}{2\pi} \int_{-\infty}^{\infty} |X(j\omega)|^2 \cdot (1 - K(j\omega))^2 d\omega \quad (3)$$

is obtained by making use of equation (1). Under these conditions, Optimization of the measuring apparatus is reduced to a selection of the transient function parameters  $K(j\omega, p_1)$  so that the strength of the error signal would attain a minimum, and matching of the apparatus is based on obtaining a definite power level of the error signal under the condition that optimization conditions are fulfilled. The equations leading to optimization are

$$\frac{\partial P}{\partial p_i} \Big|_{i=1,2,\dots} = 0 \quad (4)$$

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which usually define the relationships between the parameters  $p_1$  and the "matching" condition

$$I_{\text{minimum}}^2 \leq \mathcal{E}$$

defines the values of these parameters. The conditions for optimization and matching of a loop oscilloscope with a transient function of

$$K(j\omega) = \frac{1}{1 - \left(\frac{\omega}{\omega_0}\right)^2 + j2\zeta\left(\frac{\omega}{\omega_0}\right)} \quad (5)$$

and with a unit step of the form  $X(j\omega) = 1/j\omega$  were examined by way of an example. Author concludes that this method can be used for a number of other problems as, for instance, optimization of correcting elements. Orig. art. has: 2 figures and 11 equations.

ASSOCIATION: Politechnika Szczecinska, Katedra Mierzenia Elektrycznego (Department of Electrical Measurements of the Szczecin Polytechnic Institute)

Card 3/4

ACCESSION NR: AP4026370

SUBMITTED: 00

DATE ACQ: 15Apr64

ENCL: 00

SUB CODE: EE

NO REF Sov: 001

OTHER: 003

Card 4/4

ZUCHOWSKI, Adam

A method of analyzing relay-contact networks. Arphiw automat 6 no.4:  
423-434 '61.

1. Politechnika Szczecinska, Katedra Miernictwa Elektrycznego.  
(Radio relay systems)

METAL, Artur, doc.; ZUCHOWSKI, Adam, dr.inz.; BODZIAK, Kazimierz,  
mgr.inz.

High overload permitting rail ampere meters. Pomiary automatyka  
kontrola 8 no 2:59-60 F '62.

1. Instytut Elektrotechniki, Zaklad Automatyki i Miernictwa,  
Pracownia Masowych Przyrzadow, Szczecin (for Metal and Zuchowski).
2. Zaklad Lumel, Zielona Gora (for Bodziak).

ZUCHOWSKI, Adam, dr ins.

The optimization problem of dynamic parameters of measuring instruments. Pomiary 8 no.9:403-406 S 162.

1. Katedra Miernictwa Elektrycznego, Politechnika, Szczecin.

9,7150

P/031/61/000/004/005/D10  
D242/D301

AUTHOR: Zuchowski, Adam

TITLE: A certain method of analyzing contact relay systems

PERIODICAL: Archiwum automatyki i telemechaniki, v. 6, no. 4, 1961,  
423-434

TEXT: The author introduces the concept of logical functions of "and," "or" and "not" using Boolean algebra. To analyze a logical circuit using magnetic relays, he proposes using the unit step function. Several rules are established enabling the expression of logical function in a purely mathematical way. One of the advantages of this method is the fact that the time factor is taken into consideration. There are, however, several serious disadvantages. The method does not take into consideration the characteristics of relays. It is difficult to interpret the results except in simple cases. The method becomes very involved for the more

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A certain method...

complicated cases. The author demonstrates the use of the method in designing non-reversible asynchronous counters. There are 11 figures, 1 table and 6 Soviet-bloc references.

ASSOCIATION:

Politechnika Szczecinska. Katedra miernictwa elektrycznego  
(Politechnic Institute of Szczecin, Department of  
Electrical Measurements)

SUBMITTED:

May 15, 1961

P/031/61/000/004/005/010  
D242/D301

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ZUCHOWSKI, Ryszard, dr inż.

Determination of the relationship between absorption and dispersion  
of gamma rays and elastic and plastic strain. Przegl mech 24 no.10:  
310 25 My '65.

1. Department of Technical Mechanics of Wrocław Technical University.

ZUCHOWSKI, Ryszard, mgr inz., st. asystent

Torsion as a way of working to increase the tensile strength properties. Przegl mech 22 no. 16:509-511 25 Ag '63.

1. Katedra Mechaniki Technicznej, Politechnika, Wrocław.

ZUCHOWSKI, Z.

Will the Congress of Polish Engineers and Technicians help the builders in overcoming their difficulties? p. 41. (Przeglad Budowlany, Vol. 29, No. 2, Feb 1957, Warsaw, Poland)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

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Building industry in the Rumanian People's Republic. Przegl budowl  
i bud mieszk 34 no.2189-93, 101 F '62.

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Przegl budowl i bud mieszk. 33 no.182-4 Ja '61

KIERSKI, Boleslaw (Warszawa); ZUCHOWSKI, Zdzislaw (Warszawa)

Construction of a dwelling project in France by means of the  
ESTIOT large panel method. Przegl budowl i bud mieszk 34  
no.10:587-593 O '62.

ZUCHOWICZ, K.

The problem of brushes for high-altitude engines.

p. 134 (Technika Lotnicza. Vol. 12, no. 5, Sept./Oct. 1957. Warszawa, Poland)

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February 1958

ZUCHOWSKI, A.

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PERIODICAL: POMIARY, AUTOMATYKA, KONTROLA. Vol. 4, no. 8, Aug. 1958.

ZUCHOWSKI, A.: Specifications of electric measuring instruments. p. 359.

Monthly List of East European Accessions (EEA) LC Vol. 8, no. 4, April 1959, Unclass.

P/054/60/000/005/002/003  
S201 L303

NAME:

Duchowski, ex-army Doctor of an engineer

NAME:

Periodic pulse-train analyzer

POSITION:

Polymer, automatyka, Korttela, tel. 311-151-1

The subject claims that after his release from prison he has been working at the Institute of Technology in Korttela, where he is engaged in research work on polymer materials. He claims that he has been working there since his release from prison.

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ZUCHOWSKI, Z.

TECHNOLOGY

Periodicals: PRZEGIAD TECHNICZNY. Vol. 79, no. 17, Sept. 1958

ZUCHOWSKI, Z. Problem of technical expertness in the associations of the Central Technical Organization. p. 623.

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February 1959, Unclass.

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Periodicals: PRZEGLAD TECHNICZNY. Vol. 79, no. 19, Sept. 1958

ZUCHOWSKI, Z. Understanding committees of the Central Technical Organization.  
p. 811

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February 1959, Unclass.

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Epilepsy.

T-10

Abs Jour : Ref Zhur - Biol., No 7, 1958, 32174

Author : Zuckerman, E.

Inst : -

Title : Study of the Mechanism of the Appearance and Cessation of Convulsions Caused by Focal Stimulation. Pharmaco-Dynamic Investigation.

Orig Pub : Studii si cercerari neurologice Acad. R.P.R. Inst. neurologie, 1956, 1, No 3-4, 373-386.

Abstract : During the action of luminal (I) in doses (25 γ/kg) that do not change the threshold convulsion caused in rats by stimulation of the motor region of the cortex, there were observed: a decrease of the length of attack, change of character of the clonic movements, and lengthening of the period of excitability-restoration in the chain of neurons. During higher doses of I, the threshold for the appearance

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- 119 -

RUMANIA/Human and Animal Physiology - Nervous System.  
Cortex of Cerebral Hemispheres.

T-10

Abs Jour : Ref Zhur - Biol., No 7, 1958, 32154

Author : Zuckerman, E.

Inst :

Title : Characteristic Signs of Focal Spasm Attack Caused by  
Stimulation of Different Layers of the Cerebral Cortex.

Orig Pub : Fiziol. norm. si patol., 1957, 4, No 3, 240-244.

Abstract : During bipolar stimulation of electrodes implanted in  
different layers of the brain in 40 rats, it developed  
that both cortical spasm discharges and attacks of spasms  
appear more easily during stimulation of deep layers (V,  
VI) of the cerebral cortex than during stimulation of  
surface layers (I-III).

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RUMANIA/Human and Animal Physiology (Normal and Pathological).  
Nervous System. Higher Nervous Activity. Behavior.

Abs Jour: Ref Zhur-Diol., No 17, 1958, 80045.

Author : Zuckermann, A.; Stoica, E.; Strungaru, Gr.

Inst :

Title : Change of Food Excitability Depending on Cortical  
Tonus.

Orig Pub: Studii si cercetari fiziol. Acad. RPR, 1956, 1,  
No 3-4, 431-440.

Abstract: A stereotype of conditioned salivary reflexes with  
food reinforcement and a stereotype of motor reflexes  
were formed in 5 dogs. Normal food weight did not  
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motor activity of the animal prevented the experience

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P. 193 (Chemik) Vol. 10, No. 7/8, July 1957, Warszawa, Poland

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

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"Location of nitrogen plants and shipping costs."

p. 44 (Chemik) Vol. 10, no. 2, Feb. 1957  
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April 1958

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Investments in the chemical industry. Chemik 15 no.7/8:239-241  
Jl-Ag '62.

1. Zjednoczenie Przemyslu Syntezy Chemicznej, Gliwice.

ZUCHOWSKI, W.

"Solubility of Albumin as the Criterion of its Usefulness for Production of Glues for Veneer", p. 14, (PRZEMYSŁ DRZEWNY, Vol. 5, No. 12, Dec. 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 5, May 1955, Uncl.

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"New Substitutes for Albuminous Raw Materials for Glue", p. 16, (PRZEMYSŁ  
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SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 5,  
May 1955, Uncl.

ZUCHOWSKI, Z.

Building problems at the International Leipzig Fair. p. 253

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Warszawa

Vol. 27, no.7, July 1955

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, no. 3, March 1956

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"Problems of Sanitary Installations in Building Construction in the Soviet Union," P. 290. (GAZ, WODA I TECHNIKA SANITARNA, Vol. 28, No. 10, Oct. 1954. Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 1, Jan. 1955 Uncl.

ZUCHOWSKI, Zdzislaw, mgr.inz.

Development trends of building techniques in Poland. Przegl  
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Zdzislaw ZUCHOWSKI, Magister Engineer, "Trends in the Development of Construction Technology in Poland," Przeglad Techniczny, No. 5, March 1958, Warsaw, pp. 166-170.

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ZUCHOWSKI, Z.; URBAN, L.

Second quarterly conference of head engineers of central committees and associations of municipal building. p. 130. (PRZEGLAD BUDOWLANY, Vol. 26, No. 5, May 1954, Warszawa, Poland)

SO: Monthly List of East European Accesions, (EEAL), LC, Vol. 3, No.12, Dec. 1954, Uncl.

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